ENGLISH



Canon





Photo of PowerShot A460

The Components Guide

Preparations

Shooting

Playback/Erasing

Menus and Settings

Printing

Downloading Images to a Computer

Basic

Camera User Guide

Please Read This First

This guide explains how to prepare the camera and use its basic features.





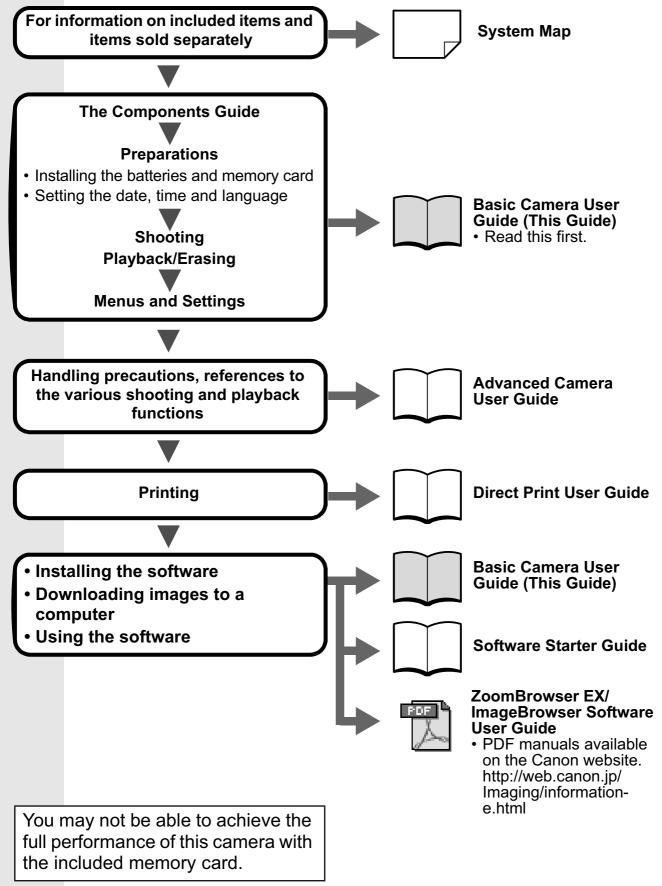




Canon

Flowchart and Reference Guides

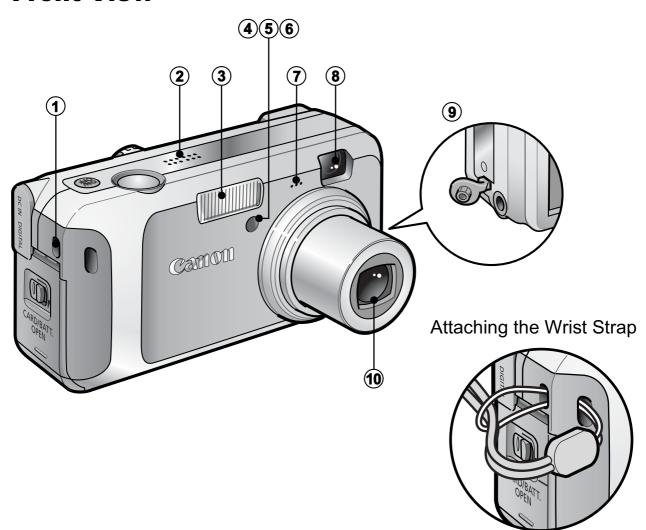
The following guides are available. Refer to them as necessary according to the flowchart below.



In this guide, the *Basic Camera User Guide* is called the *Basic Guide*, and the *Advanced Camera User Guide* is called the *Advanced Guide*.

The Components Guide

■ Front View

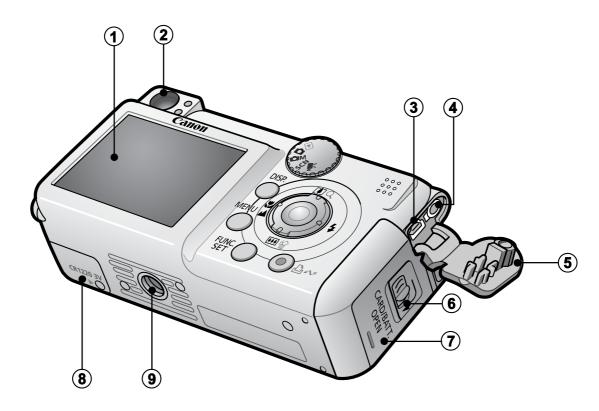


- 1 Wrist Strap Mount
- 2 Speaker
- 3 Flash (p. 13)
- 4 AF-assist Beam (Advanced Guide p. 20)
- 5 Red-Eye Reduction Lamp (p. 14)
- 6 Self-Timer Lamp (p. 16)
- 7 Microphone (Advanced Guide p. 54)
- 8 Viewfinder Window (Advanced Guide p. 17)
- 10 Lens



In order to avoid dropping the camera, wear the wrist strap when using the camera.

■ Back View

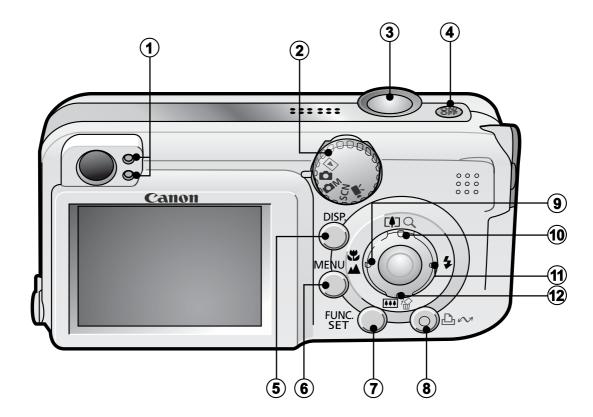


- 1 LCD Monitor (Advanced Guide p. 12)
- 2 Viewfinder (Advanced Guide p. 17)
- 3 DIGITAL Terminal (p. 27)
- 4 DC IN (power input) Terminal (Advanced Guide p. 89)
- **5** Terminal Cover
- 6 Memory Card Slot / Battery Cover Lock (p. 5)
- Memory Card Slot / Battery Cover (p. 5)
- 8 Date Battery Cover (Advanced Guide p. 92)
- Tripod Socket



The LCD monitor may be covered with a thin plastic film for protection against scratches during shipment. If so, remove the film before using the camera.

■ Controls



- 1 Indicators (p. 4)
- 2 Mode Dial (pp. 8, 18)
- 3 Shutter Button (p. 8)
- 4 Power Button (p. 8)
- (5) **DISP.** (Display) Button (Advanced Guide p. 12)
- 6 MENU Button (p. 21, Advanced Guide p. 19)
- 7 FUNC./SET (Function/Set) Button (p. 20, Advanced Guide p. 18)
- (8) △ (Print/Share) Button (pp. 22, 30)
- 10 [1] (Telephoto while shooting) / Q (Magnify in playback mode)/
 - ♣ Button (p. 12, Advanced Guide p. 50)
- 11 **♦** (Flash)/ **→** Button (p. 13)

Indicators

The camera indicators will light or blink under the following conditions.



Never do the following while the indicator blinks green. These actions may corrupt image data.

· Shake or jolt the camera

 Shut off the power, or open the memory card slot/battery cover

Upper Indicator

Green: Ready to shoot (camera beeps twice)/when

connected to a computer

Blinking Green: During camera startup/image recording/reading/

erasing/transferring (when connected to a

computer/printer)

Orange: Ready to shoot (flash on)

Blinking Orange: Ready to shoot (camera shake warning),

charging flash

Lower Indicator

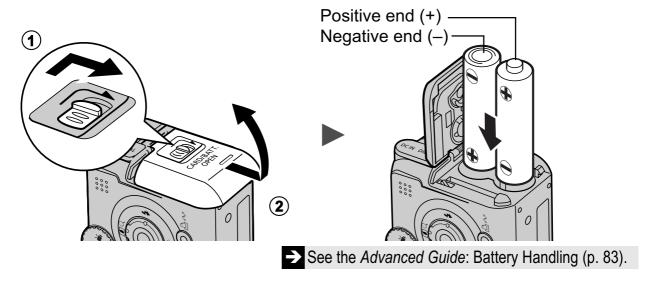
Yellow: Macro mode/Infinity mode

Blinking Yellow: Focusing difficulty (camera beeps once)

Preparations

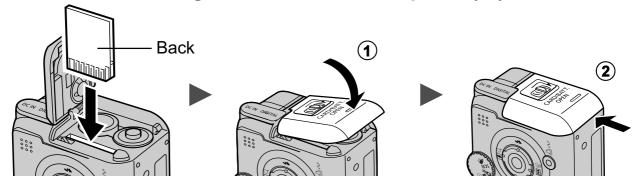
1. Installing the batteries.

- 1. Slide the memory card slot/battery cover lock (1) and press down while opening the cover (2).
- 2. Insert the batteries.



2. Inserting the Memory Card.

- 1. Insert the memory card until it clicks into place.
- 2. Close the memory card slot/battery cover (1), pressing down and sliding it until it clicks into place (2).



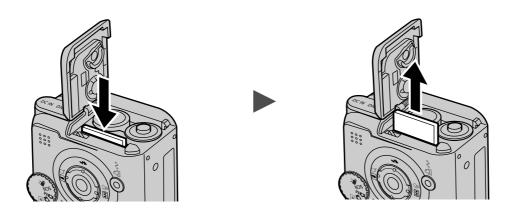


Ensure that the memory card is correctly oriented before inserting it in the camera. It may damage the camera, or the camera may not recognize the card, if it is inserted incorrectly.

- See the *Advanced Guide*: Handling the Memory Card (p. 85).
- See the *Advanced Guide*: Formatting Memory Cards (p. 25).

■ To Remove the Memory Card

Push the memory card with your finger until the memory card clicks and then release it.



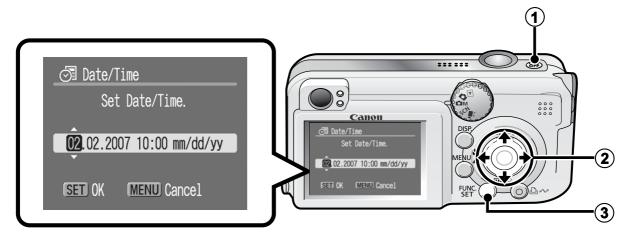


You can use SD memory cards, SDHC memory cards and MultiMediaCards with this camera.

These cards are collectively called memory cards in this guide.

First Time Settings

■ Setting the Date/Time



- 1. Press the power button (1).
- 2. Use the ← or → button to select an item and the ← or → button to change its value (②).
- 3. Confirm that the correct time is displayed and press the FUNC./SET button (3).

The date and time can also be set in the Set up menu (p. 21).



The date/time setting screen will appear when the camera power is turned on for the first time, or when the capacity of the lithium date battery is depleted.

See the *Advanced Guide*: Replacing the Date Battery (p. 92).

■ Setting the Display Language

- 1. Turn the mode dial to 🕒 (playback) (p. 18).
- 2. Hold down the FUNC./SET button and press the MENU button.
- 3. Use the ♠, ♦, or ▶ button to select a language and press the FUNC./SET button.

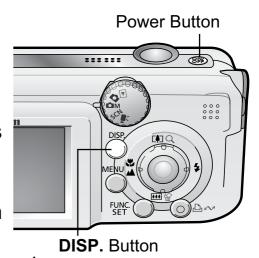
The display language can also be set in the Set up menu (p. 21).

Shooting

1. Press the power button.

The start-up sound will play and the start-up image will display in the LCD monitor.

- Pressing the power button again turns the power off.
- Pressing the power button while pressing and holding the DISP. button will turn on the mute setting which will mute all sounds except for warning sounds.

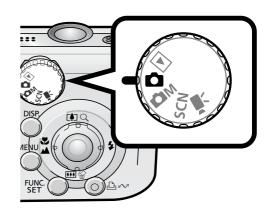


→ See the Advanced Guide: Using the LCD Monitor (p. 12).

See the *Advanced Guide*: Power Saving Function (p. 17).

See the Advanced Guide: Set up Menu (p. 21).

2. Turn the mode dial to (Auto).

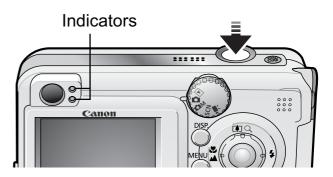


3. Aim the camera at the subject.

4. Focus and shoot.

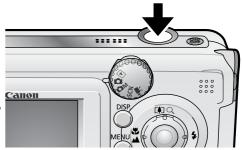
1. Press the shutter button halfway to focus.

When the camera focuses, the camera beeps twice and the indicator lights green (orange when using the flash). Also, the AF frame appears in green on the LCD monitor at the point where the camera is focused.



2. Press the shutter button fully to shoot.

The shutter sound will play and the image will record. The indicator will blink green while the image is recorded to the memory card.



→ See Indicators (p. 4).

See the Advanced Guide for the various shooting methods available.

■ Reviewing an Image Right After Shooting

After a shot is taken, the image appears in the LCD monitor for approximately 2 seconds.

You can continue to display images regardless of the review duration setting with the following procedures.

- Keeping the shutter button pressed after a shot.
- Pressing the FUNC./SET or DISP. button while the image is displayed in the LCD monitor.

To stop displaying the image, press the shutter button halfway.

See the Advanced Guide: Review (p. 20).

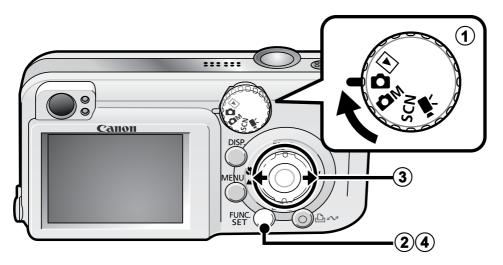
→ See Erasing (p. 19).

Selecting a Shooting Mode

1. Turn the mode dial to the desired mode (1).

■ ♠M, SCN or '\ modes

- 1.Press the **FUNC./SET** button (2).
- 2.Select a shooting mode using the ← or → button (③).
- 3.Press the **FUNC./SET** button (4).



■ Shooting Modes

Auto	The camera automatically selects settings.	
	Manual Allows you to select settings yourself, such as the exposure compensation, white balance, My Colors or ISO speed.	
Manual	Super Macro Allows you to approach closer than in Macro mode to take larger close-ups. At maximum wide angle, the distance from the end of the lens to the subject can range from 1 – 5 cm (0.3 – 2.0 in.). See the Advanced Guide (p. 28)	

Portrait

Produces a soft effect when photographing people.



♣ Night Snapshot

Allows you to take snapshots of people against twilight or night



backgrounds by reducing the effects of camera shake even without using a tripod.



Kids&Pets

Allows you to capture subjects that move around, such as children and pets, without missing photo opportunities.



Margar Indoor

Prevents camera shake and maintains the subject's true color when shooting



under fluorescent or tungsten lighting.



Shoots trees and leaves-such as new growth, autumn leaves or blossomsin vivid colors.



Snow

Shoots without a blue tinge and without making people appear dark against a snowy background.





Shoots without making people appear dark near water or sand where reflected sunlight is strong.



Fireworks

Captures fireworks in the sky sharply and at optimal exposure.





Shoots a movie when you press the shutter button.

You can set it to the (Standard) or (Compact) mode, which is convenient for email attachments.

See the Advanced Guide (p. 32).



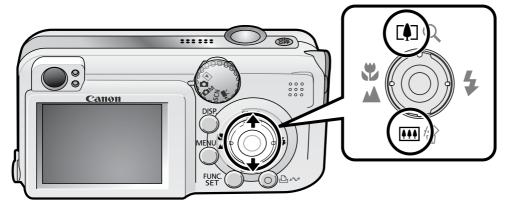
- The shutter speed is slow in mode. Always use a tripod to avoid camera shake.
- In 🔣, 😭 or 🎇 mode, the ISO speed may increase and cause noise in the image depending on the scene being shot.
- In mode, shoot with the subject more than 1 m (3.3) ft.) away from the front of the lens.

Using the Zoom

1. Press the 🛕 or 🚻 button.

You can adjust the zoom for the following focal lengths in 35mm film equivalent terms.

PowerShot A460: 38 – 152 mm PowerShot A450: 38 – 122 mm

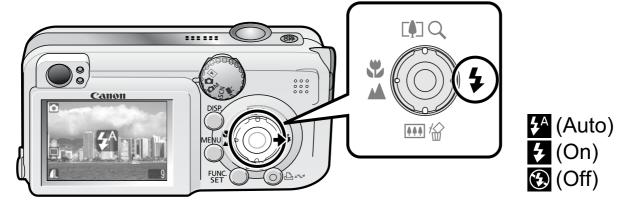


Telephoto: Zooms in on the subject.

Wide Angle: Zooms out from the subject.

Using the Flash

1. Press the \$\footnote{\psi}\$ button to cycle through flash settings.



- → See Setting the Red-Eye Reduction Function (p. 14).
- → See Setting the Slow Synchro Function (p. 14).

The **5** option cannot be set in **(Auto)** mode.

- See the *Advanced Guide*: Functions Available in Each Shooting Mode (p. 112).
- → See Selecting a Shooting Mode (p. 10).



You are recommended to shoot with the camera attached to a tripod or other device if the camera shake warning icon () appears.



When the LCD monitor is on and flash recharging begins, the indicator blinks orange and the LCD monitor turns off. When recharging ends, the indicator turns off and the LCD monitor turns on. The time required for flash recharging will change depending on usage conditions and remaining battery power.

■ Setting the Red-Eye Reduction Function

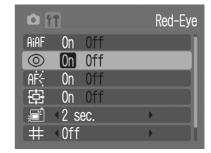
You can set whether the camera automatically fires the red-eye reduction* lamp when the flash fires.

* This function reduces the red appearance of eyes when they reflect light back from the flash.

1. **(Rec.)** Menu **(Red-Eye) (On)*/[Off].**

→ See Menus and Settings (p. 21).

* Default setting.

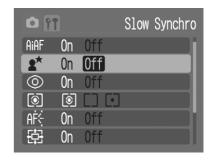


■ Setting the Slow Synchro Function

The flash timing is adjusted to slow shutter speeds. This reduces the chance that only the background will appear dark when a person is shot against a twilight background or night scene, or when an interior shot is taken.

→ See Menus and Settings (p. 21).

* Default setting.



Slow Synchro cannot be set in (Auto) mode.

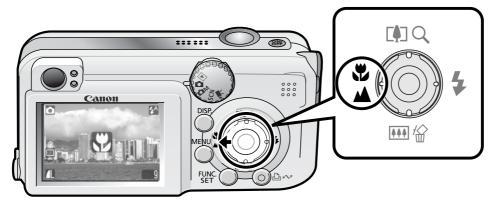


When [Slow Synchro] is set to [On], camera shake may become a factor. Use of a tripod is recommended.

Shooting Close-ups (Macro)/Infinity Shots

1. Press the ♥/▲ button.

To cancel the macro mode, press the ₩ button to turn off the ♥ or ✓ display.

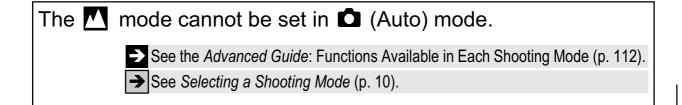


See the Advanced Guide: Shooting Magnified Close-Ups (Super Macro) (p. 28)

		_
\S	Macro	Use this mode to shoot close-ups of flowers or small items. Image Area at Minimum Focusing Distance from End of Lens to Subject • Maximum wide angle setting: 53 x 40 mm (2.0 x 1.5 in.) Minimum focusing distance: 5 cm (2.0 in.) (PowerShot A460) • Maximum telephoto setting: 66 x 50 mm (2.6 x 2.0 in.) Minimum focusing distance: 25 cm (9.8 in.) (PowerShot A450) • Maximum telephoto setting: 77 x 58 mm (3.0 x 2.3 in.) Minimum focusing distance: 25 cm (9.8 in.)
	Infinity	Use this mode when the distance from the end of the lens to the subject is 3 m (9.8 ft.) or greater.



- Use the LCD monitor to compose close-ups in macro mode since images composed with the viewfinder may be off-center.
- Confirm that you are within range when using the builtin flash (*Advanced Guide* p. 96).



Using the Self-Timer

1. FUNC. Menu ► ■* (Drive Mode) ► \$\infty\$ / \$\infty\$.

→ See Menus and Settings (p. 20).

- * Default setting.
- When the shutter button is pressed fully, the self-timer lamp will blink.
 When using red-eye reduction, the

self-timer lamp will blink and then stay lit for the last 2 seconds.



To cancel the self-timer, follow step 1 and select .



10 sec. Self-Timer: Shoots 10 sec. after you press the shutter button.

• 2 sec. before the shutter releases, the self-timer sound and lamp will speed up.



2 sec. Self-Timer: Shoots 2 sec. after you press the shutter button.

• The self-timer sound beeps quickly when you press the shutter button and the shutter releases 2 sec. later.

Custom Timer: You can change the delay time $(0-10^{*1}, 15, 20, 30 \text{ sec.})$ and number of shots $(1-10^{*2})$ (p. 17).



- When [Delay] is set to 2 or more sec., the self-timer sound begins to beep 2 sec. before the shutter releases. When [Shots] is set higher than 1, the self-timer sound only beeps before the first shot.
- *1 Default setting.
- *2 Default setting is 3 shots.

This setting cannot be set in some shooting modes.

- See the *Advanced Guide*: Functions Available in Each Shooting Mode (p. 112).
- → See Selecting a Shooting Mode (p. 10).

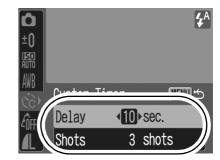
■ Changing the Delay Time and Number of Shots (🔯)

1. FUNC. Menu ► (Drive Mode) ► (Custom Timer).

See Menus and Settings (p. 20).



- 2. Press the MENU button.
- 3. Select [Delay] or [Shots] using the ♠ or ♦ button and change the settings using the ♦ or ♦ button, then press the FUNC./SET button.





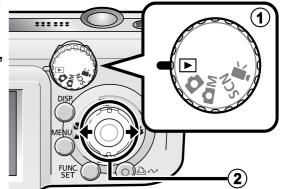
If the [Shots] option is set to 2 or more shots, the following occurs.

- The exposure and white balance are locked at the settings selected for the first shot.
- If the flash is used, the interval between shots lengthens because the flash must charge.
- The interval between shots may lengthen when the built-in memory of the camera fills.
- Shooting will automatically cease if the memory card becomes full.

Playback

1. Turn the mode dial to ▶ (playback) (1).

The last recorded image will display. If you have played back images between shooting sessions however, the last image viewed will display (Resume Playback) instead of the last recorded image. If the memory card has been switched, or the images on the memory card have



been edited with a computer, the newest image on the memory card appears.

2. Use the ← or → button to display the image you wish to view (②).

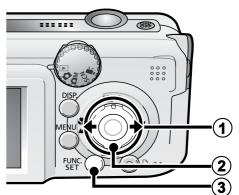
Use the ◆ button to move to the previous image and the ◆ button to move to the next image.

Holding the button down advances the images more rapidly, but shows them less clearly.

See the *Advanced Guide* for the various playback methods available.

Erasing

In the playback mode, use the ← or → button to select an image to erase (1) and press the button (2).



2. Confirm that [Erase] is selected and press the FUNC./SET button (3).

To exit instead of erasing, select [Cancel].



Please note that erased images cannot be recovered. Exercise adequate caution before erasing an image.

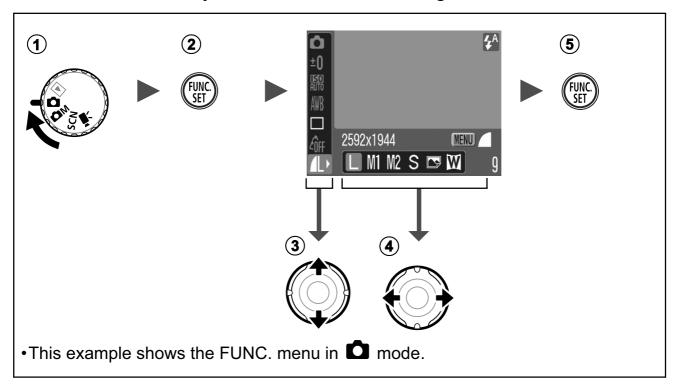
See the *Advanced Guide*: Erasing All Images (p. 63).

Menus and Settings

Settings for the shooting, playback or print modes or such camera settings as the date/time and sounds are set using the FUNC., Rec., Play, Print or Set up menu.

FUNC. Menu

This menu sets many of the common shooting functions.

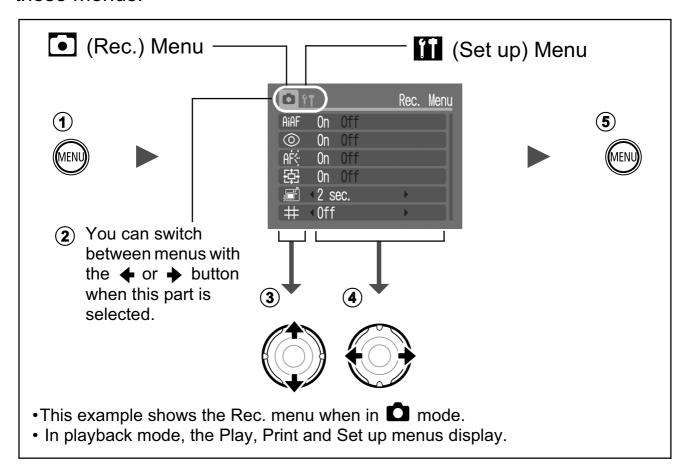


- ① Turn the mode dial to ♠, ♠M, SCN or ≒.
- ② Press the FUNC./SET button.
- ③Use the ♠ or ♥ button to select a menu item.
 - Some items may not be selectable in some shooting modes.
- **4** Use the **→** or **→** button to select an option for the menu item.
 - You can select further options with the MENU button for some options.
 - After selecting an option, you can press the shutter button to shoot immediately. After shooting, this menu will appear again, allowing you to adjust the settings easily.
- (5) Press the FUNC./SET button.

See the Advanced Guide: Menu List (p. 20).

Rec., Play, Print and Set up Menus

Convenient settings for shooting, playback or printing can be set with these menus.



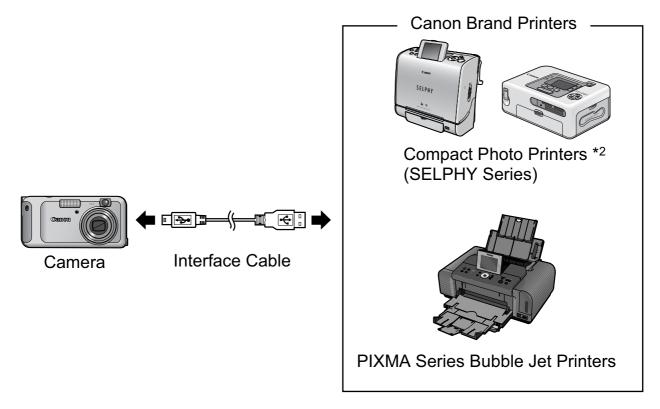
- 1 Press the MENU button.
- ② Use the ← or → button to switch between menus.
 - You can also use the zoom lever to switch between menus.
- ③ Use the ♠ or ♥ button to select a menu item.
 - Some items may not be selectable in some shooting modes.
- **4** Use the **→** or **→** button to select an option.
 - Menu items followed by an ellipsis (...) can only be set after pressing the FUNC./SET button to display the next menu.
 Press the FUNC./SET button again to confirm the setting.
- **5** Press the MENU button.

See the Advanced Guide: Menu List (p. 20).

Printing

Connect the camera to a direct print compatible printer*1 with a cable and simply press the $\triangle \sim$ button on the camera.

1. Connect the camera to a direct print compatible printer and turn on the printer's power.

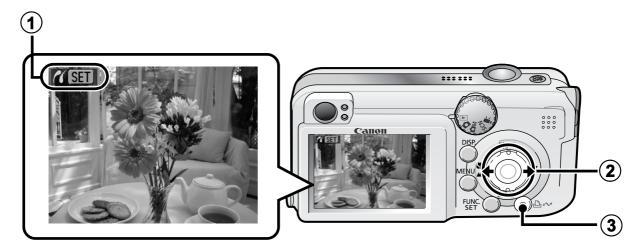


- *1 Since this camera uses a standard protocol (PictBridge), you can use it with other PictBridge-compliant printers in addition to Canon-brand printers.
- *2 You can also use the CP-10/CP-100/CP-200/CP-300 card photo printers.

2. Turn on the power in playback mode and confirm that , or or is displayed in the upper left of the LCD monitor (1).

- The △ button will light blue.
- The displayed icon will vary according to the printer model.
- SED 🖫 will display for movies.
- 3. Select an image to print using the ◆ or ◆ button (②) and press the $\triangle \bowtie$ button (③).

The △ w button will blink blue and printing will start.



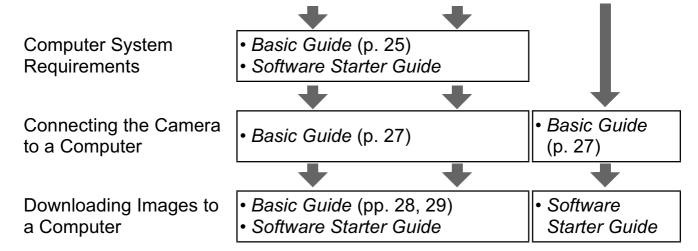
- See the *Advanced Guide*: Setting the DPOF Print Settings (p. 64).
- → See the Direct Print User Guide.
- → See the user guide for your printer.

Downloading Images to a Computer

The following methods can be used to download images recorded by the camera to a computer. Some methods, depending on the OS used, may not be available. Please read *System Requirements* (p. 25) in advance.

■ Camera to Computer Connection

Supplied Software		Install It		Do Not Install It
Downloading Method		Computer Procedure	Camera Procedure	Computer Procedure
os	Windows 2000	•	•	_
	Windows XP	•	•	•
	Windows Vista	•	•	•
	Mac OS X	•	•	•



■ Using a Memory Card Reader

A memory card reader can be used with all the operating systems listed above. See the *Software Starter Guide* for details.

System Requirements

Please install the software on a computer meeting the following minimum requirements.

■ Windows

OS	Windows 2000 Service Pack 4 Windows XP (including Service Pack Windows Vista	ck 1 and Service Pack 2)
Computer Model	The above OS should be pre-installed on computers wire built-in USB ports.	
CPU	Windows 2000/Windows XP Windows Vista	Pentium 500 MHz or higher Pentium 1.3 GHz or higher
RAM	Windows 2000/Windows XP Windows Vista	256 MB or more 512 MB or more
Interface	USB	
Free Hard Disk Space	Canon UtilitiesZoomBrowser EXPhotoStitchCanon Camera TWAIN Driver	200 MB or more 40 MB or more 25 MB or more
Display 1,024 x 768 pixels/High Color (16 bit) or better		bit) or better

■ Macintosh

OS	Mac OS X (v10.3 – v10.4)	
Computer Model	The above OS should be pre-inst built-in USB ports.	alled on computers with
CPU	PowerPC G3/G4/G5 or Intel proc	essor
RAM	256 MB or more	
Interface	USB	
Free Hard Disk Space	Canon UtilitiesImageBrowserPhotoStitch	200 MB or more 40 MB or more
Display	1,024 x 768 pixels/32,000 Colors or better	

Preparing to Download Images

Ensure that you install the software first before connecting the camera to the computer.

■ Items to Prepare

- Camera and computer
- Canon Digital Camera Solution Disk supplied with the camera
- · Interface cable supplied with the camera

1. Install the software.

Windows

- 1. Place the Canon Digital Camera Solution Disk in the computer's CD-ROM drive.
- **2. Click [Easy Installation].**Follow the onscreen messages to proceed.
- 3. When the installation is complete, click either the [Restart] or [Finish] button that appears.
- 4. Remove the CD-ROM from the drive when your normal desktop screen appears.





Macintosh

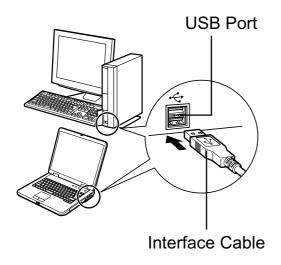
The window to the right will appear when you double-click the icon in the CD-ROM. Select [Install] and follow the onscreen messages to proceed.

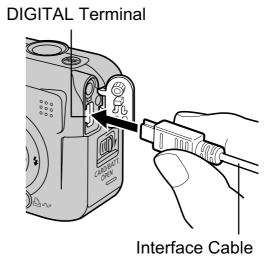


2. Connecting the camera to a computer.

1. Use the supplied interface cable to connect the computer's USB port to the camera's DIGITAL terminal.

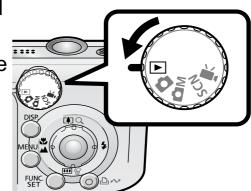
Slip your fingernail under the edge of the camera's terminal cover, lift it open and plug the interface cable in all the way.





2. Turn the camera's mode dial to (playback) and turn on the power.

The camera and computer will be able to communicate.





Always grasp the sides of the connector when disconnecting the interface cable from the camera's DIGITAL terminal.

Windows

If the Digital Signature Not Found window appears, click [Yes]. The USB driver will automatically finish installing onto the computer when you attach the camera and open a connection.

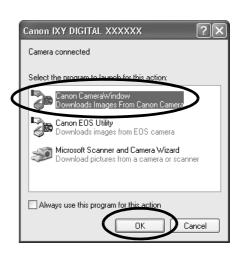
Windows Downloading Images to a Computer

A window allowing you to set the preferences will appear when a connection is established between the camera and computer.

1. Select [Canon CameraWindow] and click [OK] (first time only).

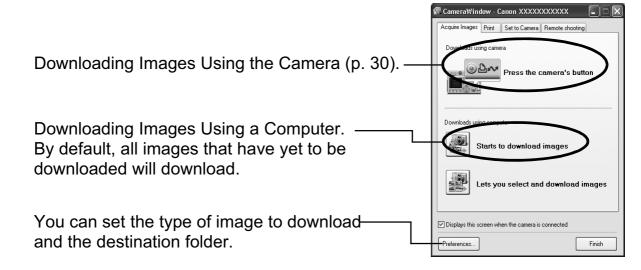


If the window to the right does not appear, click the [Start] menu and select [All Programs] or [Programs], followed by [Canon Utilities], [CameraWindow], [PowerShot - IXY - IXUS - DV 6] and [CameraWindow].



2. Download the images.

- Download the images using the camera or the computer.
- By default, the downloaded images are saved into the [Pictures] or [My Pictures] folder.



Thumbnails (small versions) of the downloaded images will display in the ZoomBrowser EX Main Window. By default, the downloaded images are saved into subfolders according to their shooting dates.



Macintosh

Downloading Images to a Computer

The following window will appear when you establish a connection between the camera and computer. If it fails to appear, click the [Canon CameraWindow] icon on the Dock (the bar which appears at the bottom of the desktop).

1. Download the images.

- Download the images using the camera or the computer.
- By default, the downloaded images are saved into the [Pictures] folder.

Downloading Images Using the Camera (p. 30).

Downloading Images Using a Computer.
By default, all images that have yet to be downloaded will download.

You can set the type of image to download and the destination folder.

Acquire Images Print Set to Camera Remote shooting Downloads using camera

Press the camera's button

Starts to download images

Lets you select and download images

Print Set to Camera Remote shooting Downloads using camera

Preferences.... Quit

Thumbnails (small versions) of the downloaded images will display in the ImageBrowser Browser Window. By default, the downloaded images are saved into folders according to their shooting dates.



Downloading Images Using the Camera (Direct Transfer)

Use this method to download images using camera operations. Install the supplied software and adjust the computer settings before using this method for the first time (p. 26).

	All Images	Transfers and saves all images to the computer.
	New Images	Transfers and saves to the computer only the images that have not been previously transferred.
✓ •	DPOF Trans. Images	Transfers and saves to the computer only the images with DPOF Transfer settings (<i>Advanced Guide</i> p. 67).
	Select & Transfer	Transfers and saves single images to the computer as you view and select them.
	Wallpaper	Transfers and saves single images to the computer as you view and select them. The transferred images display as the background on the computer desktop.

1. Confirm that the Direct Transfer menu is displayed on the camera's LCD monitor.

- The △ button will light blue.
- Press the **MENU** button if the Direct Transfer menu fails to appear.



■ All Images/New Images/DPOF Trans. Images

2. Select ☐, ☐ or ☐ and press the ☐ button.

The images will download. The had button will blink blue while downloading is in progress. The display will return to the Direct Transfer menu when the download is complete.



• To cancel the download, press the **FUNC./SET** button.

■ Select & Transfer/Wallpaper

- 2. Select
 ☐ or ☐, and press the ☐ w button (or the FUNC./SET button).
- 3. Select images to download and press the △ w button (or the FUNC./SET button).

 - Images can also be selected during index playback (*Advanced Guide* p. 51).
 - Press the MENU button to return to the Direct Transfer menu.





Only JPEG images can be downloaded as wallpaper for a computer. On the Windows platform, the files are automatically created as BMP images.



The option selected with the riangle button is retained even when the camera's power is turned off.

The previous setting will be in effect the next time the Direct Transfer menu is displayed. The image selection screen will appear directly when the [Select & Transfer] or the [Wallpaper] option was last selected.

MEMO

Safety Precautions

Be sure to read, understand and follow the safety precautions below when using the camera, in order to prevent injury, burns or electrical shock to yourself and others.

Be sure to also read the safety precautions listed in the *Advanced Camera User Guide*.

Marnings

- Do not trigger the flash in close proximity to human or animal eyes.
- Store this equipment out of the reach of children and infants.
- Avoid dropping or subjecting the camera to severe impacts. Do not touch the flash portion of the camera if it has been damaged.
- Stop operating the equipment immediately if it emits smoke or noxious fumes.
- Do not handle the power cord if your hands are wet.
- Do not use batteries which are not specified for this camera.
- The compact power adapter output terminals have been designed exclusively for this equipment. Do not use them for other products.